

CLAIMS

1 1. A system for sharing secure sockets layer (SSL) sessions across multiple
2 processes comprising:
3 an application process;
4 a daemon process;
5 an SSL wrapper process;
6 SSL application programming interface (API) calls for communication between
7 the application process and SSL wrapper process, for communication between the SSL
8 wrapper process and the SSL daemon process, and for communication between the SSL
9 daemon process and at least one SSL session.

1 2. The system of claim 1 wherein the SSL wrapper process receives a request for
2 an SSL session from an application program, determines whether the request is for a
3 shared or unshared SSL session, passes requests for a shared SSL session to the SSL
4 daemon process, receives a return code from the SSL daemon process, and passes the
5 return code to the application program.

1 3. The system of claim 2 wherein the requests received by the SSL wrapper
2 process include a first input parameter, the first input parameter indicating whether or not
3 a shared SSL session is requested.

1 4. The system of claim 2 wherein the SSL wrapper process receives a second
2 input parameter and passes the second input parameter to the SSL daemon process, the
3 second input parameter comprising the data the application process requests secured by
4 an SSL session.

1 5. The system of claim 2 wherein the SSL daemon process receives a request for
2 a shared SSL session from the SSL wrapper process, passes requests for a shared SSL
3 session to a shared SSL session, receives a return code from the SSL session, and passes
4 the return code to the SSL wrapper process.

1 6. The system of claim 4 wherein the SSL daemon process receives a second
2 input parameter from the application process and passes the second input parameter to the
3 SSL session.

1 7. A method for sharing secure sockets layer (SSL) sessions across multiple
2 processes, comprising:
3 at least one SSL wrapper process receiving a request for a shared SSL session
4 from an application process;
5 an SSL daemon process receiving at least one request for a shared SSL session
6 from the SSL wrapper process;
7 the SSL daemon process calling at least one SSL session;
8 the SSL daemon process receiving at least one return code from at least one
9 called SSL session;
10 at least one SSL wrapper process receiving at least one return code from the SSL
11 daemon; and
12 at least one SSL wrapper process passing a return code to the application process.

1 8. The method in claim 7 wherein a request for an SSL session includes a first
2 input parameter, the first input parameter indicating whether or not a shared SSL session
3 is requested.

1 9. The method of claim 7 wherein the SSL wrapper process communicates with
2 the application process using SSL application programming interface (API) calls, the SSL
3 wrapper process communicates with the SSL daemon process using SSL application
4 programming interface (API) calls, and the SSL daemon process communicates with SSL
5 sessions using SSL application programming interface (API) calls.

1 10. An article of manufacture comprising:

2 a computer useable medium having computer readable program code embodied
3 therein for sharing secure sockets layer (SSL) sessions across multiple processes, the
4 computer readable program in said article of manufacture comprising:

5 computer readable program code for causing a computer to receive a request for
6 an SSL session, to determine whether the request is for a shared or unshared SSL session,
7 to pass a request for a shared SSL session to an SSL daemon process, and to receive a
8 return code from the SSL daemon process;

9 computer readable program code for causing a computer to receive at least one
10 request for a shared SSL session, to call an SSL session, to receive a return code from the
11 SSL session, and to pass a return code to an SSL wrapper process.

1 11. The article of manufacture of claim 10 further comprising computer readable
2 program code for causing a computer to receive a request for an SSL session, wherein the
3 request includes a first input parameter indicating whether or not a shared SSL session is
4 requested.

1 12. The article of manufacture of claim 10 further comprising computer readable
2 program code for causing a computer to receive a request for an SSL session, wherein the
3 request includes a second input parameter, the second input parameter being the data an
4 application process requests to be secured by an SSL session.